Product Data Sheet

FX™–400SRF

FX™–400SRF is a specialty woven soil reinforcement geotextile that is manufactured specifically for use in the construction of steepened slopes, embankments and wrapped-face retaining walls. Woven of high tenacity, high molecular weight multifilament polyester yarns in the warp or "reinforcing" direction, FX™–400SRF is resistant to UV degradation and biological and chemical environments normally found in soils.

PROPERTY	SYMBOL	TEST METHOD	DATA	
			METRIC	ENGLISH
☐ **Tensile Properties**			kN/m	lb/ft
MD – Ultimate	T_{ult}	ASTM D 4595	72.2	4944
MD – Ultimate Strain at Failure	ε_{ult}	ASTM D 4595	13.0%	
MD – Tensile Strength @ 5% Strain	$T_{5\%}$	ASTM D 4595	19.8	1360
MD – Creep Reduced Strength	T_l	ASTM D 5262	42.4	2908
☐ **Reduction Factors**				
Creep	RF_{CR}	ASTM D 5262	1.67	
Durability (5<pH<8)	RF_D	GRI: GG7 & GG8	1.15	
Installation Damage:				
Soil Type 1 (Gravel): 8mm D_{50}	RF_{ID}	ASTM D 5818	1.37	
Soil Type 2 (Concrete Sand): 0.65mm D_{50}			1.17	
Soil Type 3 (Silty Sand): 0.11mm D_{50}			1.11	
☐ **Design Strength Properties**				
Long Term Design Strength / Allowable Tensile Strength				
T_{ult} / RF for Soil Type 1: Gravel	LTDS/T_{al}	NCMA/FHWA	27.4	1879
T_{ult} / RF for Soil Type 2: Concrete Sand			32.1	2200
T_{ult} / RF for Soil Type 3: Silty Sand			33.8	2319
☐ **Design Interaction Properties**				
Coefficient of Interaction				
Soil Type 1	C_i	ASTM D 6706	0.90	
Soil Type 2				
Soil Type 3				
Coefficient of Direct Sliding				
Soil Type 1	C_{ds}	ASTM D 5321	0.80	
Soil Type 2				
Soil Type 3				
☐ **Scale Correction Factor**	α		1.00	
☐ **Dimensional Properties**	**Units**			
	SI	**US**		
Mass Per Unit Area	g/m^2	oz/yd^2	ASTM D 5261	191.6 / 5.7
Roll Width	m	ft	Measured	2.3 / 7.5
Roll Length				91.4 / 300
Area Per Roll	m^2	yd^2		208.9 / 250
Estimated Roll Weight	kg	lbs		40.0 / 91

☐ The values reported are Minimum Average Roll Values (MARV), and are calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any samples taken from quality assurance testing will exceed the value reported.

☐ The properties reported above are effective 10/16/03 and are subject to change without notice.

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